Specifications

1) Duty cycle of 555 timer (calculated)

2) Frequency from frequency divider ÷ 10 (calculated)

3) Pencil from 3-input AND (measured)

1) High for 1.49 ms ± 0.05 ms
   Low for 0.79 ms ± 0.05 ms

\[ \text{Duty Cycle} = 100 \times \frac{1.49}{1.49 + 0.79} = 65.35 \pm 0.32\% \]

- Uncertainties determined from propagation of errors

2) \( \lambda = 10 \text{ms} \) at 500 ms/div \( T = 4.1 \text{ ms} \)

\[ f = 0.91 \pm 0.04 \text{ Hz} \]

- Uncertainties determined by oscilloscope specifications.

3) \( T = 11 \pm 0.8 \text{ s} \)

- Uncertainties determined by manufacturer's specifications.